UNIVERSAL SPACE PLAN USP
PROGRAM GOAL

The goal of the Pentagon Renovation Program is to "upgrade the Pentagon into a modern, flexible and safe environment that will endure well into the 21st century".

The USP system's primary focus is to take advantage of the Pentagon's existing intrinsic structure to put individuals into better space. This includes higher ceilings, increased access to natural light, streamlined circulation, improved way finding, and safer exiting.

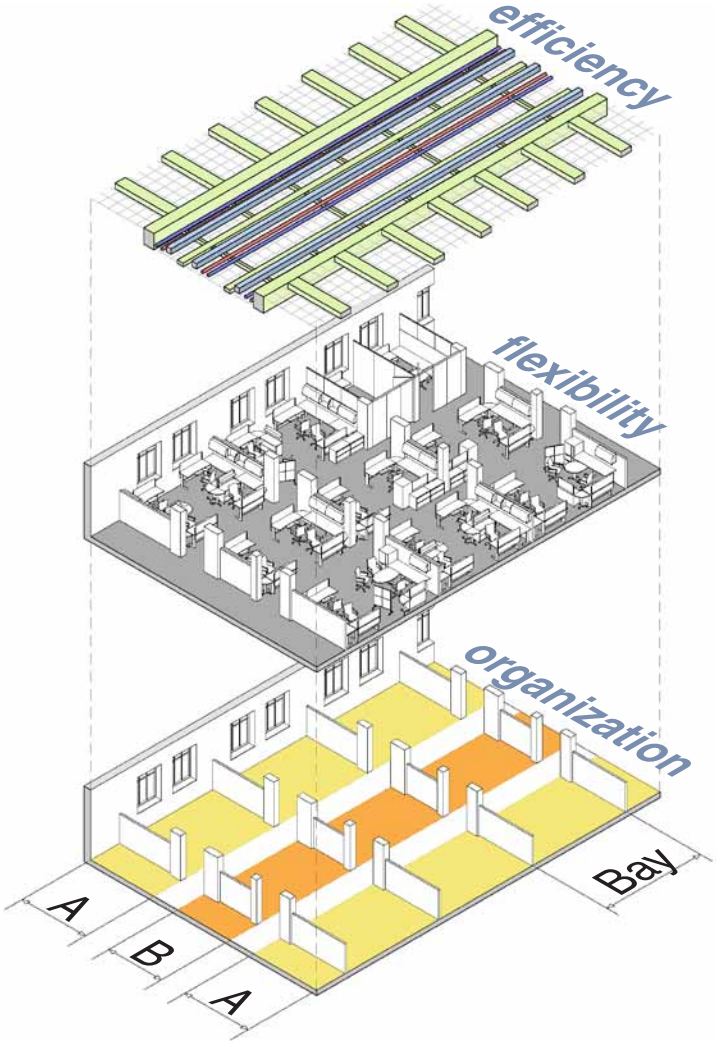
UNIVERSAL SPACE PLAN USP
INTRODUCTION

- Primary Concepts
- Zones and Circulation
- Bays
- Ceilings
- Partitioning
- Smart Walls
- Infill Walls and Panels
- Furniture Kit of Parts
- Workspace Standards
- Workspace Configuration
- System Flexibility
- Mock-Up Virtual Tour
- Sustainability

UNIVERSAL SPACE PLAN USP
PRIMARY CONCEPTS

The Universal Space Plan:

- delivers the lowest life cycle cost and most sustainable solution in a “high re-configuration” environment.
- provides the flexibility to accommodate all known space types.
- provides a ceiling and above-ceiling infrastructure that will adapt to years of space reconfiguration without ever being changed.
- allows population densification in crisis situations.
- provides an interior environment that maximizes ceiling heights, creates spatial quality, and maximizes natural light.
- eliminates conflict with future furniture standards, technologies or obsolescence.
- allows for tenant space to be constructed concurrently with the Core and Shell construction.



ZONES AND CIRCULATION

Zone A:

- utilizes a higher ceiling height by eliminating the plenum.
- has increased access to natural light.
- ideal zone for offices and open workspaces.

Zone B:

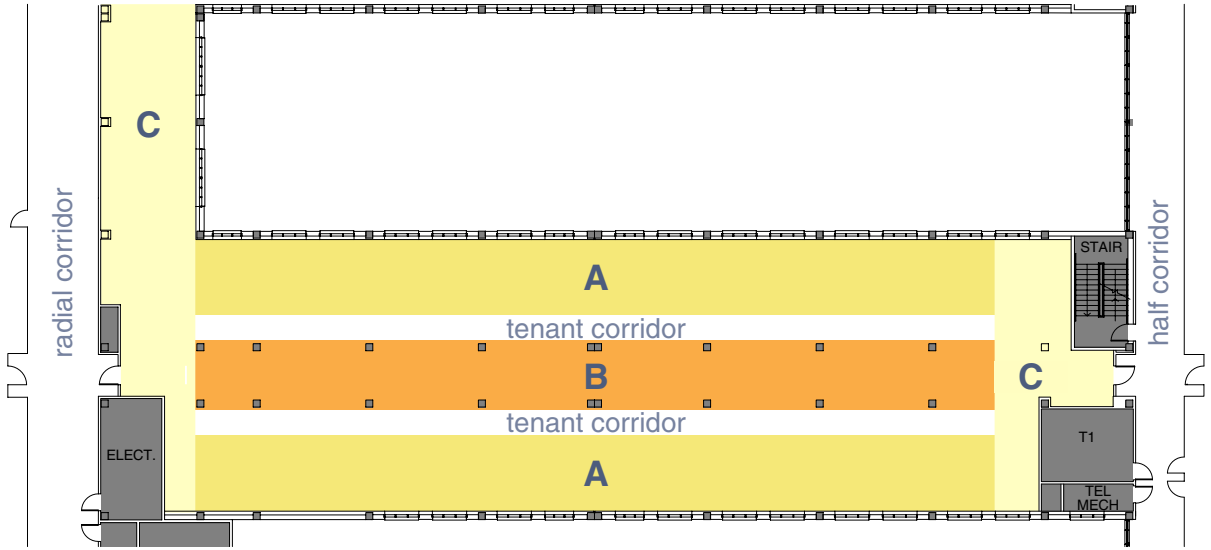
- located at the interior zone.
- accommodates the Uniform Utility Distribution above ceiling.
- ideal zone for offices and open workspaces.

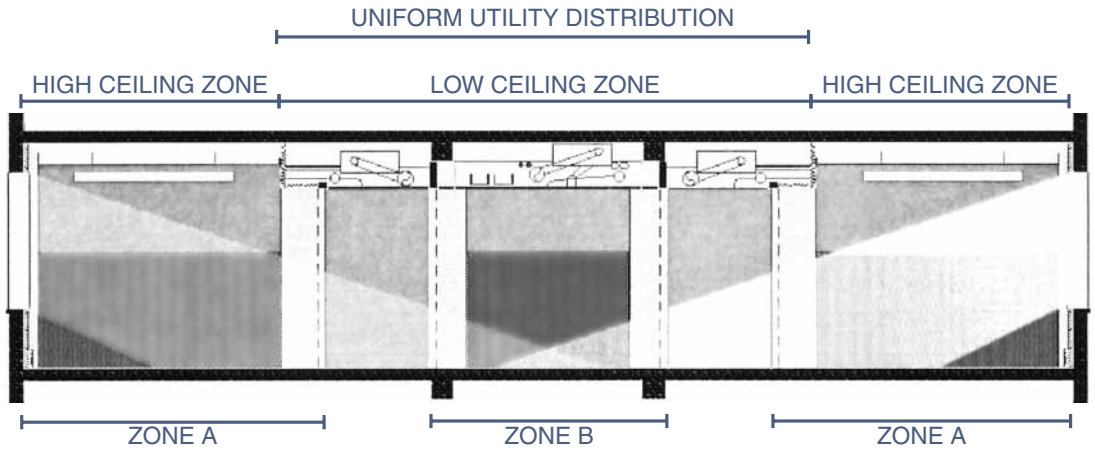
Zone C:

- comprised of all remaining atypical space.
- suited for special and non-standard program requirements.

Circulation:

- comprised of radial, half and tenant corridors.



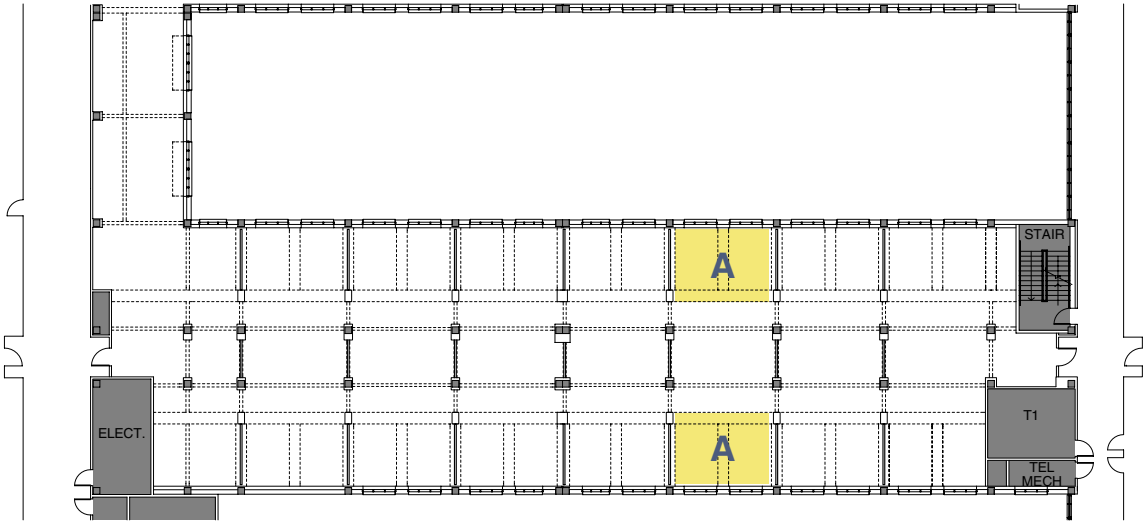


section of space showing light penetration

UNIVERSAL SPACE PLAN USP
BAYS

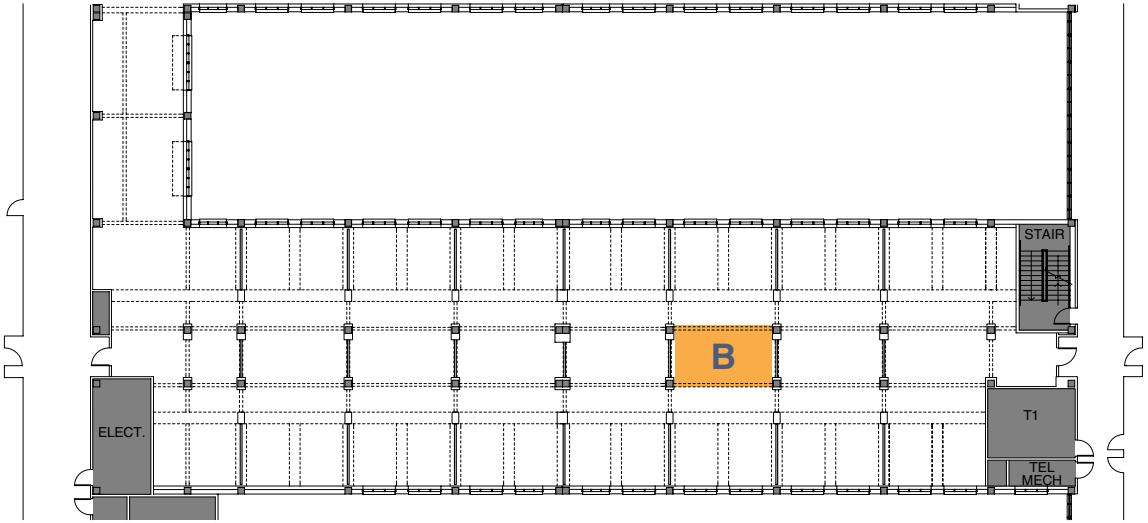
Universal Bay: Zone A

- prioritized for individual work areas and meeting spaces.
- ideal for either open or enclosed spaces.



Universal Bay: Zone B

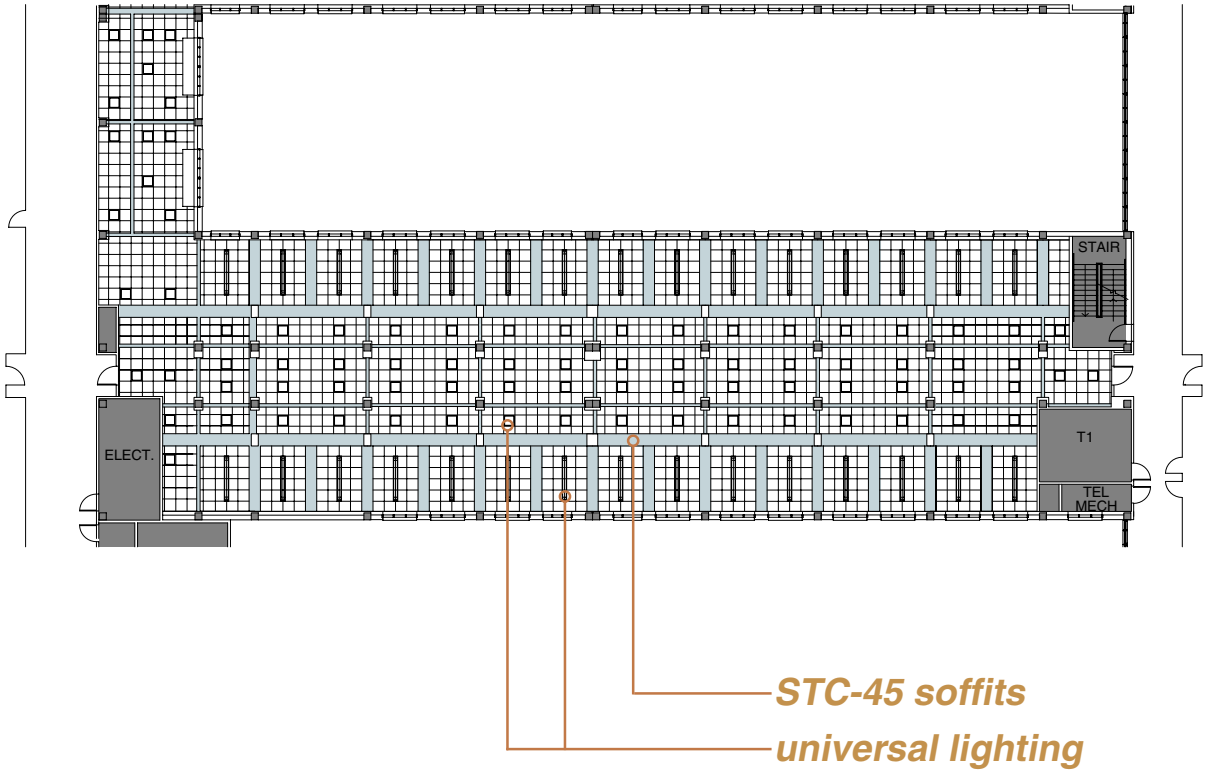
- can be planned as individual work areas and / or as support areas, such as meeting, copy, file and storage areas.
- accommodates either open or enclosed spaces.



CEILINGS

Pre-Installed Ceilings:

- provide STC-45 soffits at pre-determined partition locations.
- allow for immediate demising of tenants.
- eliminate the disruption of the ceiling during modification.
- provide a universal lighting grid appropriate for all planned conditions.



PARTITIONING

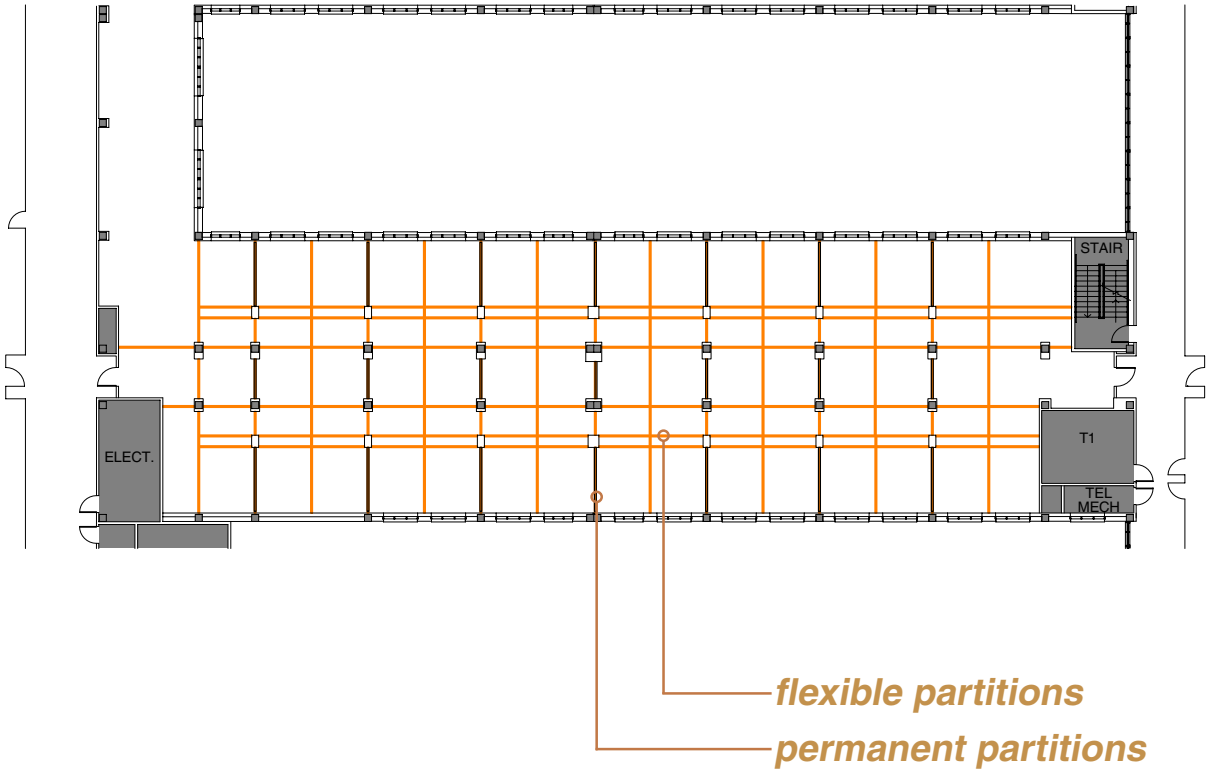
The USP Partitions consist of:

- permanent partitioning

  Smart Walls

- flexible partitioning

  Infill Walls and Infill Panels



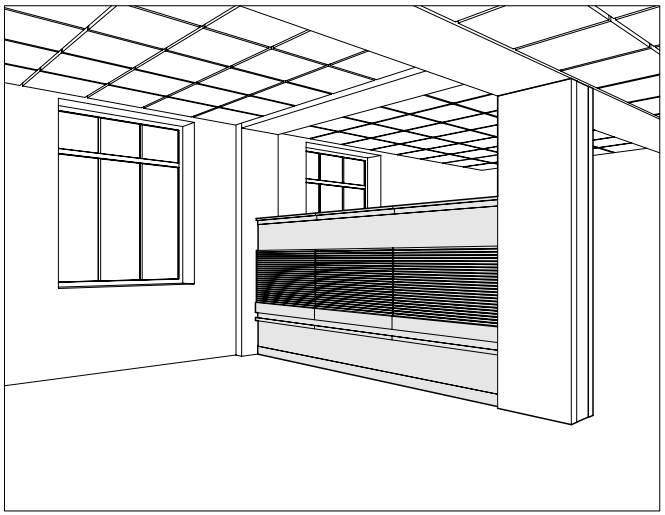
UNIVERSAL SPACE PLAN USP
SMART WALLS

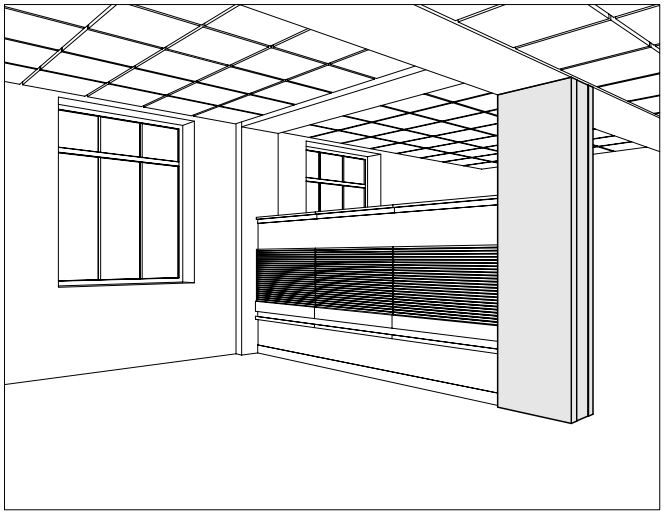
Smart Walls:

- form the USP planning bay.
- are permanently installed.
- are pre-wired for electrical and communications needs.

  Utility Chase and Horizontal Raceways
- integrate furniture applications.

  Universal Rail and Accessory Rail
- form partial height enclosure for open workspace types.
- can extend to the ceiling to provide an STC-45 sound rated enclosure.

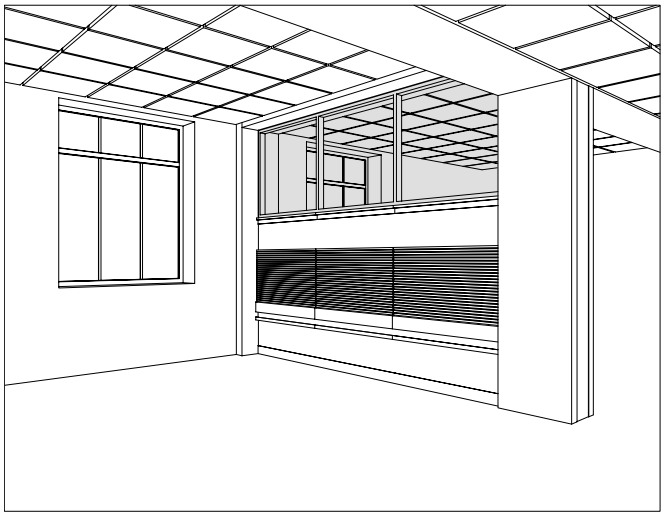




INFILL WALLS AND PANELS

Infill Panels:

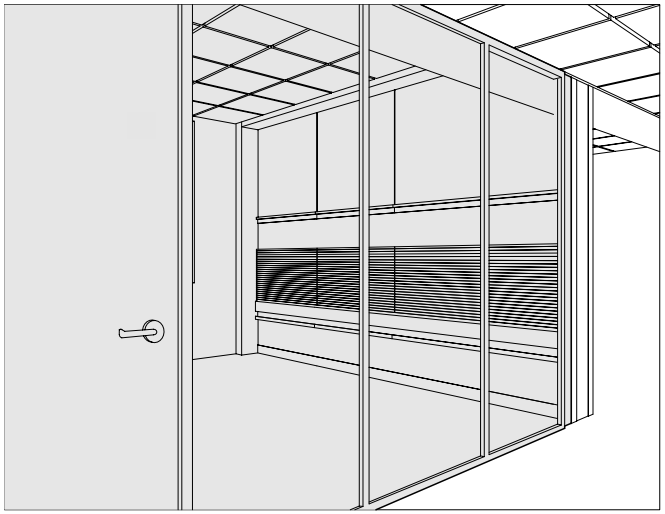
- are used above Smart Walls to create enclosure and demise space.
- are movable, re-usable, modular and pre-finished.
- are available in opaque or transparent* options.



Infill Walls:

- are used in conjunction with Infill Panels to create enclosure and demise space.
- allow for switching and security.
- are movable, re-usable, modular and pre-finished.
- are available in opaque or transparent* options.

* Transparent options are available at an additional cost to the tenant.



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KIT OF PARTS

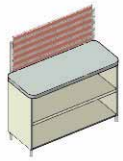
The Kit of Parts:

- simplifies furniture application at the Smart Wall.
- facilitates different workspace types and layouts to be created using the same kit of parts.
- allows easy manipulation of furniture elements.
- allows active participation of the user with the space.
- eliminates structural, dimensional and technological dependencies of furniture systems.

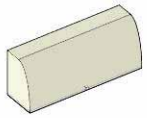
MAIN WORKSURFACE

MAIN WORKSURFACE

FILE CREDENZA



SHELVING CREDENZA



OVERHEAD CLOSED STORAGE UNIT

OVERHEAD SHELVING UNIT

MOBILE FILE PEDESTAL

STANDARD FILE PEDESTAL

STORAGE TOWER

CORNER SURFACE

OVAL TABLE

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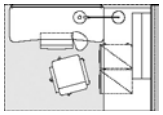
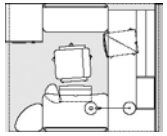
WORKSPACE STANDARDS

The Workspace Standards:

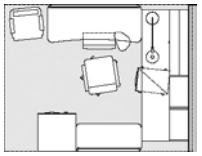
- are based on existing Pentagon Workspace Standards.
- offer a range of areas that can absorb a range of conditions.
- have the ability to change configuration or orientation to satisfy user's desires or variations in space allocations.



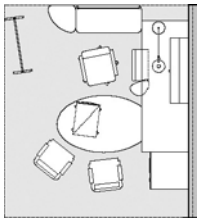
AX WORKSPACE



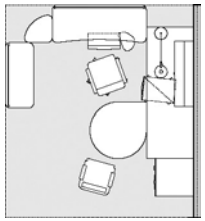
BX WORKSPACE



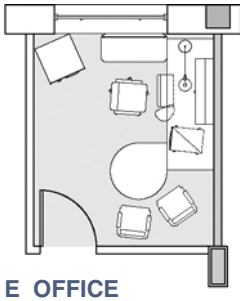
CX WORKSPACE



EX-1 WORKSPACE

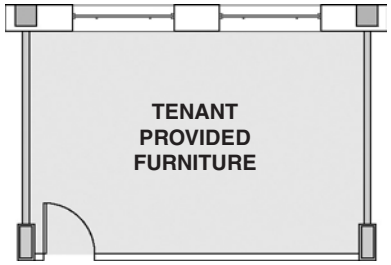


EX-2 WORKSPACE



E OFFICE

F OFFICE



G OFFICE

H OFFICE

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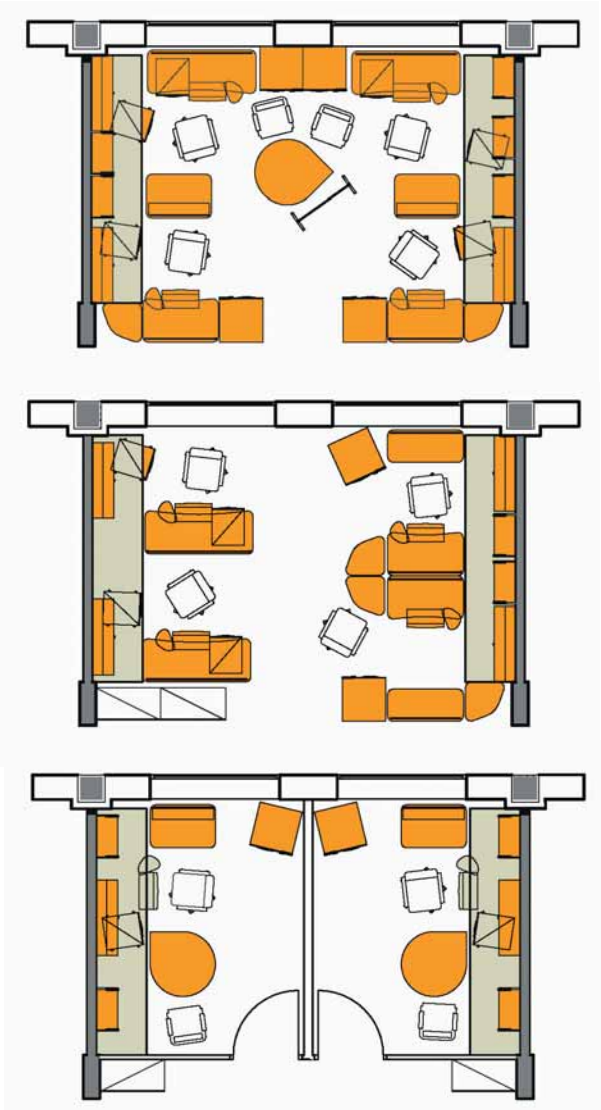
WORKSPACE CONFIGURATIONS

The USP Concept:

- creates a flexible system designed by functionally driven aesthetics.
- allows users to modify workstation layouts to support individual requirements.
- facilitates enclosed spaces by the simple addition of infill walls and panels.
- allows any standard bay to absorb workspace standards.



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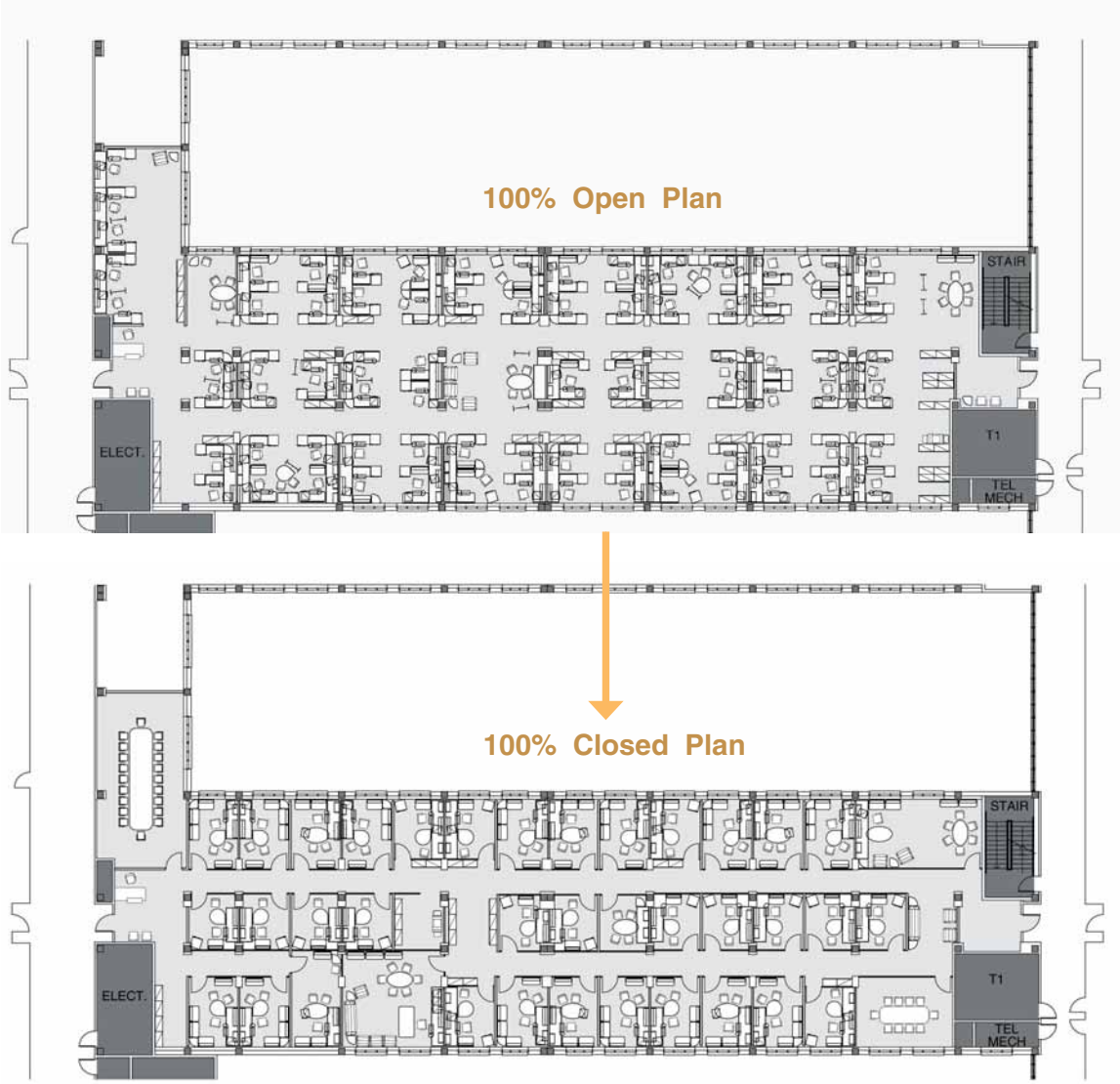
FLEXIBILITY

The USP Concept:

- allows suites to be modified from a 100% open plan workstations to a 100% enclosed office environment with minimal cost and virtually no disruption of infrastructure.
- maintains safe and constant exiting routs.
- provides planning flexibility which achieves a space savings of 6% - 8% over typical construction.



THE USP TESTING LAB

UNIVERSAL SPACE PLAN USP
ZONE A

UNIVERSAL SPACE PLAN USP
ZONE B

UNIVERSAL SPACE PLAN USP
FURNITURE MOCK-UP

UNIVERSAL SPACE PLAN USP
SMART WALL MOCK-UP


ABS


Dowcraft


Iris Wall


Nordwall / Satelozzi

SUSTAINABILITY

The Permanent Universal Infrastructure:

- *reduces construction waste associated with modifications and hence reduces landfill.*
- *components utilize environmentally friendly products that are either recyclable or biodegradable.*
- *facilitates increased reliance on natural light.*